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# Omni97 Status Review

Proprietary Information

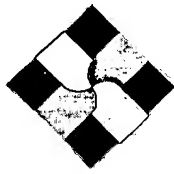
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## Status

- ✓ CAM design complete
- ✓ Initial fabric modelling complete
- ✓ Fabric requirements defined, verilog in progress
- ✓ Quotes in hand for CAM and Fabric ASICs
- ✓ LED Module quoted
- ✓ PRD in progress



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Cam

✓ 48 bit compares

✓ 1024 entries, cascadable

✓ Integrated RMON support

✓ Compare possible every 2 clocks @ 80MHz

- Working to improve to 1 clock

✓ Atmel

- \$9.38
- \$220K NRE

✓ LSI Logic

- \$10.32
- \$130K NRE

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Fabric

✓ 8 - 1.28 Gigabit links

✓ 17+ million frames/sec sustained

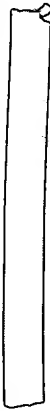
✓ 2+ Million frames/sec per link

■ 14 ports @ 100Mbps wire-speed

✓ VBUS format

✓ 640/960 Mbps VBUS, receive only

✓ Quote from LSI - \$79.94, \$195K NRE



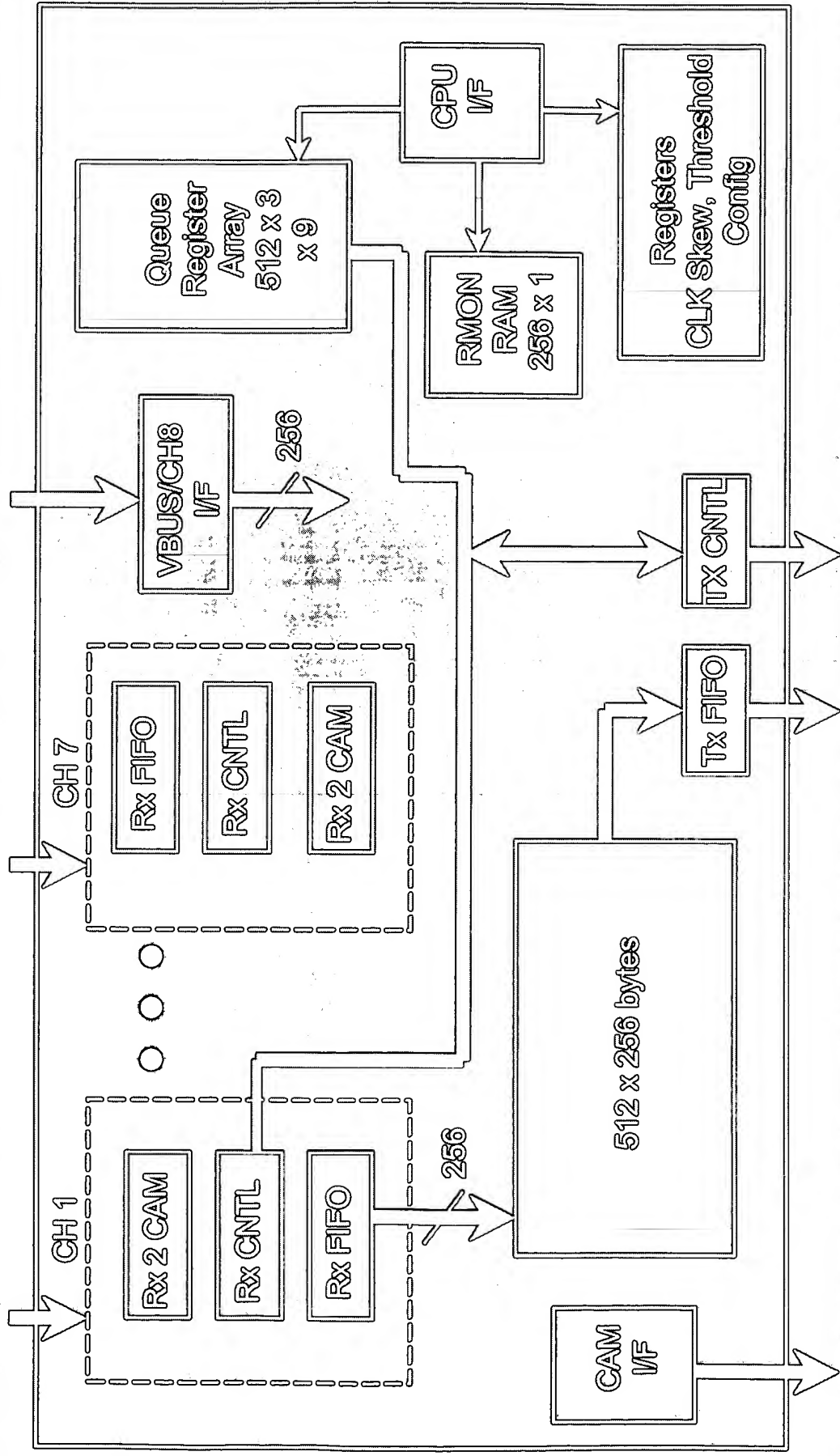
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# Fabric ASIC Block Diagram



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## LED Module

✓ 4 x 9 Array of green LEDs

✓ 1.64" x .79" x .2"

✓ Quote from Siemens

■ \$9.25 - 25k pieces

■ \$57K NRE



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## Ethernet modules planned

✓ 8 x 100 Mbps Full Duplex

✓ 16 x 100 Mbps

✓ 24 x 100 Mbps

■ 32 ports, if LED module works out

✓ 32 x 10 Mbps

✓ 2 x 1000 Mbps



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## Cost Targets - Burdened

	<u>Board</u>	<u>List/Port</u>
8 x 100BaseFx	\$1600	\$1000
16 x 10/100	\$900	\$280
32 x 10/100	\$1200	\$190
32 x 10	\$950	\$148
Gigabit Ethernet	\$1600?	\$4000

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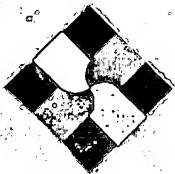
## Other Modules

✓ 2 x OC-12

✓ MPM

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# Schedule

✓ ASICs in-house

✓ First shipments

✓ Currently about 2 weeks ahead

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## Issues

✓ May need to add cost to achieve wire-speed on 16-port module

- Mammoth may not have enough SDRAM bandwidth
- Would increase cost/port by about \$8, or about \$50 list

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## Next steps

- ✓ Negotiate for lower NRES
- ✓ Select CAM and Fabric vendors
- ✓ Issue purchase orders
- ✓ Complete PRD

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